

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A rotary electric machine, comprising:
a housing;
a stator core disposed in the housing;
a bolt having an enlarged diameter part for fixing the stator core to the housing by pressing one axial end portion of the stator core by the enlarged diameter part; and
an intermediate member provided at a contact portion between the enlarged diameter part of the bolt and the axial end portion of the stator core, the intermediate member being softer than the enlarged diameter part of the bolt, wherein the intermediate member is deformed at a contact portion with the enlarged diameter part by being pressed with the bolt in the axial direction and the intermediate member is deformed in a depressed manner by reducing an axial height of the intermediate member at the contact portion and keeping an axial height at a portion other than the contact portion.
2. (Original) The rotary electric machine as in claim 1, wherein the stator core is fixed to the housing at a plurality of locations spaced apart at equal angular intervals on a periphery which has a slightly larger diameter than that of an outer periphery of the stator core, the bolt being provided at each of the locations.
3. (Original) The rotary electric machine as in claim 1, wherein a step is provided at an inner peripheral portion of the housing to receive another axial end portion of the stator core, and the stator core is sandwiched between the step and the enlarged diameter part through the intermediate member.
4. (Currently Amended) A rotary electric machine, comprising:
a housing;

a stator core disposed in the housing; and

a bolt having an enlarged diameter part for fixing the stator core to the housing by pressing one axial end portion of the stator core by the enlarged diameter part, wherein the stator core has a cavity at a radially outermost axial end portion of the stator core, and the enlarged diameter part contacts the stator core in the cavity and the bolt is disposed on the housing located radially outside of the stator core.

5. (Original) The rotary electric machine as in claim 4, wherein the stator core is fixed to the housing at a plurality of locations spaced apart at equal angular intervals on a periphery which has a slightly larger diameter than that of an outer periphery of the stator core, the bolt being provided at each of the locations.

6. (Original) The rotary electric machine as in claim 4, wherein a step is provided at an inner peripheral portion of the housing to receive another axial end portion of the stator core, and the stator core is sandwiched between the step and the enlarged diameter part.

7. (Currently Amended) A rotary electric machine, comprising:
a housing having a cylindrical wall in which a bolt hole is formed in an axial direction inside an inner periphery of the wall, the housing having a step on the inner periphery at an axial end side;

a stator core fit in the housing in contact with the inner periphery of the wall, an outer peripheral part of one axial end of the stator core being in direct-contact with the step of the housing;

a bolt threaded into the bolt hole and having an enlarged head part which presses an outer peripheral part of another axial end of the stator core in the axial direction;
and

an intermediate member interposed between the enlarged part of the bolt and the outer peripheral part of the another axial end of the stator core, the intermediate member being deformable by being pressed with the enlarged head part in the axial direction and the intermediate member is deformed in a depressed manner by reducing an axial height of the intermediate member at the contact portion and keeping an axial height at a portion other than the contact portion.

8. (Currently Amended) A rotary electric machine, comprising:

a housing having a cylindrical wall in which a bolt hole is formed in an axial direction inside an inner periphery of the wall, the housing having a step on the inner periphery at an axial end side;

a stator core fit in the housing in contact with the inner periphery of the wall, an outer peripheral part of one axial end of the stator core being in contact with the step of the housing; and

a bolt threaded into the bolt hole and having an enlarged head part which presses an outer peripheral part of another axial end of the stator core in the axial direction,

wherein the stator core has a cavity on the outer peripheral part of the another axial end to receive the enlarged head part therein and the bolt is disposed on the housing located radially outside of the stator core.

9. (Original) The rotary electric machine as in claim 8, wherein the cavity is formed only at a location where the enlarged head part of the bolt contacts the stator core.

10. (Currently Amended) A rotary electric machine, comprising:

a housing having a cylindrical wall in which a bolt hole is formed in an axial direction inside an inner periphery of the wall;

a stator core disposed in the inner periphery of the wall, the stator core having a first axial end and a second axial end;

a bolt having an enlarged diameter part which reaches a radially outermost part of the first axial end of the stator core; and

an intermediate member attached to the radially outermost part of the first axial end of the stator core, the intermediate member being softer than the enlarged diameter part, wherein the bolt is threaded in the bolt hole such that the enlarged diameter part presses the first axial end of the stator core in the axial direction through the intermediate member and the second axial end is in contact with the wall at an axial end side and the intermediate member is deformed in a depressed manner by reducing an axial height of the intermediate member at the contact portion and keeping an axial height at a portion other than the contact portion.

11. (Previously Added) The rotary electric machine according to claim 10, wherein the housing has a step on the inner periphery at the axial end side, and an outer peripheral part of the second axial end of the stator core is in contact with the step.

12. (New) The rotary electric machine as in claim 1, wherein the housing has a cylindrical portion accommodating the stator core, the cylindrical portion has a bolt hole receiving the bolt and an axial end from which the bolt is inserted into the bolt hole,

the intermediate member is only provided on the axial end portion of the stator core, the axial end portion of the stator core is lower than the axial end of the housing with respect to the axial direction, and

the intermediate member protrudes beyond the axial end of the housing with respect to the axial direction.

13. (New) The rotary electric machine as in claim 12, wherein the housing comprises:

a cylindrical portion accommodating the stator core;

a bearing box in which a bearing is supported;
a radial support rib extending in a radial direction to connect the bearing box and the cylindrical portion; and
a bolt hole for receiving the bolt formed on a portion of the housing where the radial support rib is connected.

14. (New) The rotary electric machine as in claim 4, wherein the housing comprises:

a cylindrical portion accommodating the stator core; and
a bolt hole for receiving the bolt formed on the cylindrical portion of the housing, the bolt hole having a threaded portion that is shorter than an axial length of the stator core and is located within a radial outside area of the stator core.

15. (New) The rotary electric machine as in claim 14, wherein the housing further comprises:

a bearing box in which a bearing is supported; and
a radial support rib extending in a radial direction to connect the bearing box and the cylindrical portion, wherein
the bolt hole is formed on a portion of the housing where the radial support rib is connected.

16. (New) The rotary electric machine as in claim 15, wherein
the cylindrical portion has a thick portion having a radial thickness thicker than another portion of the cylindrical portion, the radial support rib is connected with the thick portion, and the bolt hole is formed on the thick portion.